

DERWENT ABSTRACT FOR: JP 04-028740 (Mitsubishi), published 31 Jan1992:

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ACCESSION NUMBER: 1992-085307 [11] WPINDEX

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TITLE: Prepn. of thermoplastic resin compsn. - prepd. by blending phenylene ether resin etc. with specified polymers and then with olefin resin.

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PATENT ASSIGNEE(S): (MITP) MITSUBISHI PETROCHEMICAL CO LTD; (TOYT) TOYOTA JIDOSHA KK

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PATENT INFORMATION:

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The resin compsn. comprises (A), (B), (C) and (D) and is prepd. by blending component (B) or a mixt. of component (B) and at least one kind of component (C) or (D) to obtain compsn. (I) in the 1st step, and then blending compsn. (I) with component (A) and the remaining components in the 2nd step. In the method component (A) = polyolefin resin, 30-78 wt.%, component (B) = polyphenylene-ether resin, 20-68 wt.%, component (C) = a polymer having both alkenyl aromatic cpd. polymer chain (C1) and aliphatic hydrocarbon polymer chain (C2) in one molecule and dynamic shearing modulus at 23 deg.C of 3×10^8 dyne/cm² or higher, 2-50 wt.%, component (D) is rubberlike polymer having dynamic shearing modulus at 23 deg.C G' of 2×10^8 dyne/cm² or higher : 1-50 pts.wt. per 100 pts.wt. of (A), (B) plus (C).

(A) is pref. isostatic polypropylene. (C) is pref. partially hydrogenated alkenyl cpd.-conjugated diene block copolymer such as hydrogenated styrene-butadiene triblock copolymer. (D) is pref. maleic anhydride grafted propylene-ethylene random copolymer or maleic anhydride grafted 1-butene-ethylene random copolymer.

USE/ADVANTAGE - Process gives a resin compsn. having good mechanical properties, esp. a good balance between falling wt. impact strength and rigidity.

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